

10/823,707

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PASSWORD:

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NEWS 7 AUG 30 CASREACT - Enhanced with displayable reaction conditions  
NEWS 8 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY  
  
NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:06:45 ON 14 SEP 2005

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:07:12 ON 14 SEP 2005  
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10/823,707

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STRUCTURE FILE UPDATES: 13 SEP 2005 HIGHEST RN 863091-33-2  
DICTIONARY FILE UPDATES: 13 SEP 2005 HIGHEST RN 863091-33-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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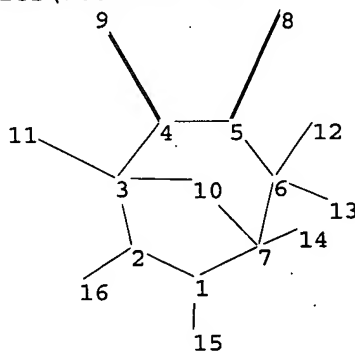
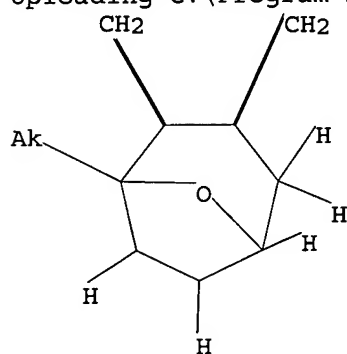
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*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10823707.str



```
chain nodes :
8 9 11 12 13 14 15 16
ring nodes :
1 2 3 4 5 6 7 10
chain bonds :
1-15 2-16 3-11 4-9 5-8 6-12 6-13 7-14
ring bonds :
1-2 1-7 2-3 3-4 3-10 4-5 5-6 6-7 7-10
exact/norm bonds :
1-2 1-7 2-3 3-4 3-10 3-11 4-5 5-6 6-7 7-10
exact bonds :
1-15 2-16 4-9 5-8 6-12 6-13 7-14
```

10/823,707

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:Atom  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 14:07:30 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 381 TO ITERATE

100.0% PROCESSED 381 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 6449 TO 8791  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 14:07:39 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 7613 TO ITERATE

100.0% PROCESSED 7613 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'CAPLUS' ENTERED AT 14:07:46 ON 14 SEP 2005  
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FILE COVERS 1907 - 14 Sep 2005 VOL 143 ISS 12  
FILE LAST UPDATED: 13 Sep 2005 (20050913/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

10/823,707

=> s 13

L4 2 L3

=> d 14 ibib hitstr abs 1-2

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:238747 CAPLUS

DOCUMENT NUMBER: 142:298015

TITLE: A synthesis of 7-membered carbocyclic compounds via intramolecular Prins cyclization of (trimethylsilylmethyl)allenol derivatives

INVENTOR(S): Cho, Yong Seo; Chang, Moon Ho; Koh, Hun Yeong; Pae, Ae Nim; Kang, Hyun Jung

PATENT ASSIGNEE(S): Korea Institute of Science and Technology, S. Korea

SOURCE: U.S. Pat. Appl. Publ., 6 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005059832	A1	20050317	US 2004-823707	20040414
JP 2005089430	A2	20050407	JP 2003-358546	20031017
PRIORITY APPLN. INFO.:			KR 2003-64383	A 20030917
OTHER SOURCE(S):			CASREACT 142:298015; MARPAT 142:298015	

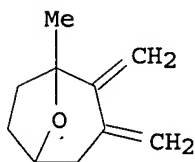
IT 832743-84-7P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

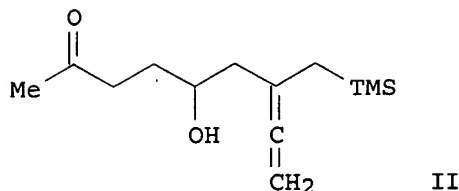
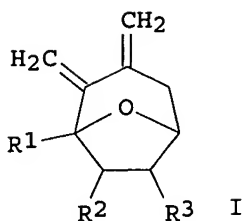
(synthesis of oxabicyclooctane derivs. via intramol. Prins cyclization of (trimethylsilylmethyl)allenol derivs.)

RN 832743-84-7 CAPLUS

CN 8-Oxabicyclo[3.2.1]octane, 1-methyl-2,3-bis(methylene)- (9CI) (CA INDEX NAME)



GI



AB The invention relates to a synthesis of 7-membered carbocyclic compds. of formula I [wherein: R1 is alkyl; R2 and R3 are H; or R1, R2, and R3 are connected with neighboring substituents to form 5- to 10-membered aliphatic or aromatic ring] via intramol. Prins cyclization of (trimethylsilylmethyl)allenol derivs. using Lewis acid. The 7-membered carbocyclic compound is a useful intermediate for synthesis of other multicyclic compds. For instance, oxabicyclooctane derivative I (R1 = Me, R2 = R3 = H) was prepared via Prins cyclization of allenol derivative II with a yield of 94%.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:1062626 CAPLUS

DOCUMENT NUMBER: 142:176642

TITLE: Diastereoselective synthesis of seven- and eight-membered oxabicycles via Prins-type cyclization

AUTHOR(S): Kang, Hyun Jung; Kim, Sang Hee; Pae, Ae Nim; Koh, Hun Yeong; Chang, Moon Ho; Choi, Kyung il; Han, So-Yeop; Cho, Yong Seo

CORPORATE SOURCE: Biochemicals Research Center, Korea Institute of Science and Technology, Seoul, 130-650, S. Korea

SOURCE: Synlett (2004), (14), 2545-2548

CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 832743-84-7P

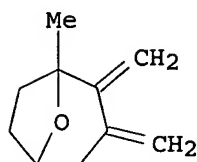
RL: SPN (Synthetic preparation); PREP (Preparation)

(stereoselective synthesis of seven- and eight-membered oxabicycles via Prins-type cyclization)

RN 832743-84-7 CAPLUS

CN 8-Oxabicyclo[3.2.1]octane, 1-methyl-2,3-bis(methylene)- (9CI) (CA INDEX NAME)

10/823,707



AB A novel methodol. for the diastereoselective synthesis of seven- and eight-membered oxabicycles bearing dimethyldiene via Prins-type cyclization was developed. The reaction takes place in the presence of TMSOTf in di-Et ether at -78 °C.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

10.78	172.32
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-1.46	-1.46
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STN INTERNATIONAL LOGOFF AT 14:08:58 ON 14 SEP 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	JUL 20	Powerful new interactive analysis and visualization software, STN AnaVist, now available
NEWS	4	AUG 11	Derwent World Patents Index(R) web-based training during August
NEWS	5	AUG 11	STN AnaVist workshops to be held in North America
NEWS	6	AUG 30	CA/CAPLUS - Increased access to 19th century research documents
NEWS	7	AUG 30	CASREACT - Enhanced with displayable reaction conditions
NEWS	8	SEP 09	ACD predicted properties enhanced in REGISTRY/ZREGISTRY

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

10/823,707

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 14:10:56 ON 14 SEP 2005

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:11:01 ON 14 SEP 2005  
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STRUCTURE FILE UPDATES: 13 SEP 2005 HIGHEST RN 863091-33-2  
DICTIONARY FILE UPDATES: 13 SEP 2005 HIGHEST RN 863091-33-2

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

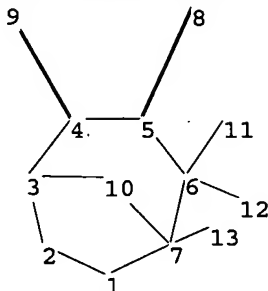
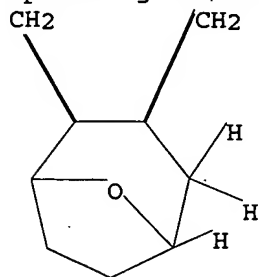
Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

10/823,707

Uploading C:\Program Files\Stnexp\Queries\108237071.str



chain nodes :

8 9 11 12 13

ring nodes :

1 2 3 4 5 6 7 10

chain bonds :

4-9 5-8 6-11 6-12 7-13

ring bonds :

1-2 1-7 2-3 3-4 3-10 4-5 5-6 6-7 7-10

exact/norm bonds :

1-2 1-7 2-3 3-4 3-10 4-5 5-6 6-7 7-10

exact bonds :

4-9 5-8 6-11 6-12 7-13

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:Atom  
11:CLASS 12:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 14:11:17 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 381 TO ITERATE

100.0% PROCESSED 381 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 6449 TO 8791

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 14:11:22 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 7613 TO ITERATE

100.0% PROCESSED 7613 ITERATIONS

12 ANSWERS

SEARCH TIME: 00.00.01

L3 12 SEA SSS FUL L1

=> file caplus



10/823,707

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	161.33	161.54

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FILE COVERS 1907 - 14 Sep 2005 VOL 143 ISS 12  
FILE LAST UPDATED: 13 Sep 2005 (20050913/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 2 L3

=> d l4 ibib hitstr abs 1-2

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:238747 CAPLUS

DOCUMENT NUMBER: 142:298015

TITLE: A synthesis of 7-membered carbocyclic compounds via intramolecular Prins cyclization of (trimethylsilylmethyl)allenol derivatives

INVENTOR(S): Cho, Yong Seo; Chang, Moon Ho; Koh, Hun Yeong; Pae, Ae Nim; Kang, Hyun Jung

PATENT ASSIGNEE(S): Korea Institute of Science and Technology, S. Korea

SOURCE: U.S. Pat. Appl. Publ., 6 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005059832	A1	20050317	US 2004-823707	20040414
JP 2005089430	A2	20050407	JP 2003-358546	20031017

PRIORITY APPLN. INFO.: KR 2003-64383 A 20030917

OTHER SOURCE(S): CASREACT 142:298015; MARPAT 142:298015

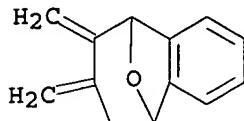
IT 832743-89-2P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(synthesis of oxabicyclooctane derivs. via intramol. Prins cyclization of (trimethylsilylmethyl)allenol derivs.)

10/823,707

RN 832743-89-2 CAPLUS

CN 5,9-Epoxy-5H-benzocycloheptene, 6,7,8,9-tetrahydro-6,7-bis(methylene)-  
(9CI) (CA INDEX NAME)



IT 832743-84-7P 832743-87-0P 847860-47-3P

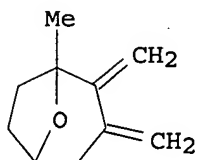
847860-48-4P 847860-49-5P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP  
(Preparation)

(synthesis of oxabicyclooctane derivs. via intramol. Prins cyclization  
of (trimethylsilylmethyl)allenol derivs.)

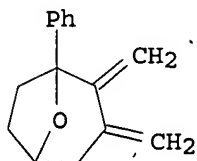
RN 832743-84-7 CAPLUS

CN 8-Oxabicyclo[3.2.1]octane, 1-methyl-2,3-bis(methylene)- (9CI) (CA INDEX  
NAME)



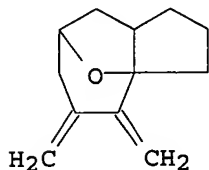
RN 832743-87-0 CAPLUS

CN 8-Oxabicyclo[3.2.1]octane, 2,3-bis(methylene)-1-phenyl- (9CI) (CA INDEX  
NAME)



RN 847860-47-3 CAPLUS

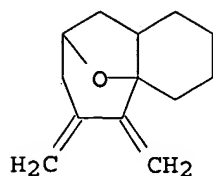
CN 1H-3a,7-Epoxyazulene, octahydro-4,5-bis(methylene)- (9CI) (CA INDEX NAME)



RN 847860-48-4 CAPLUS

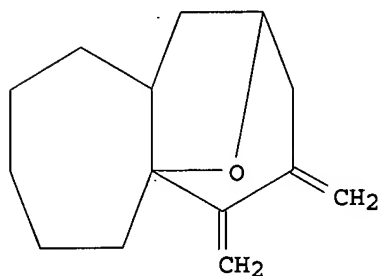
CN 4a,8-Epoxy-4aH-benzocycloheptene, decahydro-5,6-bis(methylene)- (9CI) (CA  
INDEX NAME)

10/823,707

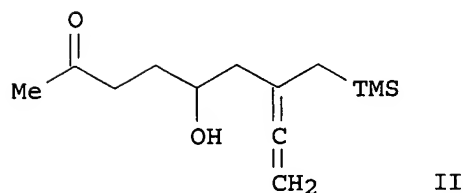
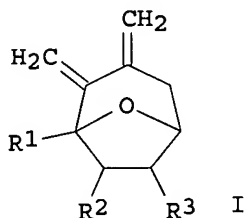


RN 847860-49-5 CAPLUS

CN 1H-2,5a-Epoxyheptalene, decahydro-4,5-bis(methylene)- (9CI) (CA INDEX NAME)



GI



AB The invention relates to a synthesis of 7-membered carbocyclic compds. of formula I [wherein: R1 is alkyl; R2 and R3 are H; or R1, R2, and R3 are connected with neighboring substituents to form 5- to 10-membered aliphatic or aromatic ring] via intramol. Prins cyclization of (trimethylsilylmethyl)allenol derivs. using Lewis acid. The 7-membered carbocyclic compound is a useful intermediate for synthesis of other multicyclic compds. For instance, oxabicyclooctane derivative I (R1 = Me, R2 = R3 = H) was prepared via Prins cyclization of allenol derivative II with a yield of 94%.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:1062626 CAPLUS

DOCUMENT NUMBER: 142:176642

TITLE: Diastereoselective synthesis of seven- and eight-membered oxabicycles via Prins-type cyclization

AUTHOR(S): Kang, Hyun Jung; Kim, Sang Hee; Pae, Ae Nim; Koh, Hun Yeong; Chang, Moon Ho; Choi, Kyung il; Han, So-Yeop; Cho, Yong Seo

CORPORATE SOURCE: Biochemicals Research Center, Korea Institute of Science and Technology, Seoul, 130-650, S. Korea

SOURCE: Synlett (2004), (14), 2545-2548

CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

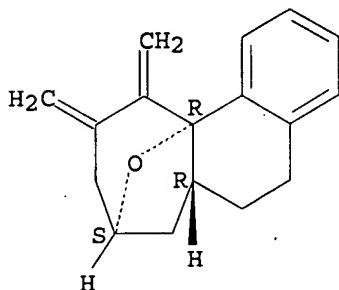
IT 832743-99-4P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(stereoselective synthesis of seven- and eight-membered oxabicycles via Prins-type cyclization)

RN 832743-99-4 CAPLUS

CN 8,11a-Epoxy-11aH-cyclohepta[a]naphthalene, 5,6,6a,7,8,9,10,11-octahydro-10,11-bis(methylene)-, (6aR,8S,11aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 832743-84-7P 832743-87-0P 832743-89-2P

832743-91-6P 832743-94-9P 832743-96-1P

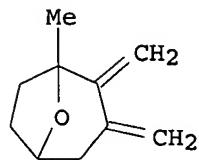
832744-02-2P 832744-04-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(stereoselective synthesis of seven- and eight-membered oxabicycles via Prins-type cyclization)

RN 832743-84-7 CAPLUS

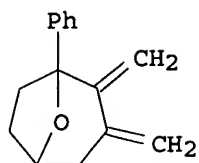
CN 8-Oxabicyclo[3.2.1]octane, 1-methyl-2,3-bis(methylene)- (9CI) (CA INDEX NAME)



RN 832743-87-0 CAPLUS

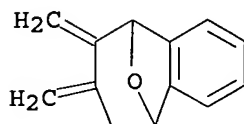
CN 8-Oxabicyclo[3.2.1]octane, 2,3-bis(methylene)-1-phenyl- (9CI) (CA INDEX NAME)

10/823,707



RN 832743-89-2 CAPLUS

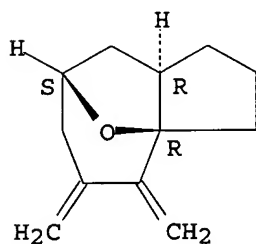
CN 5,9-Epoxy-5H-benzocycloheptene, 6,7,8,9-tetrahydro-6,7-bis(methylene)-  
(9CI) (CA INDEX NAME)



RN 832743-91-6 CAPLUS

CN 1H-3a,7-Epoxyazulene, octahydro-4,5-bis(methylene)-, (3aR,7S,8aR)-rel-  
(9CI) (CA INDEX NAME)

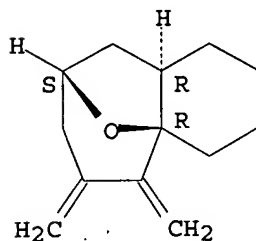
Relative stereochemistry.



RN 832743-94-9 CAPLUS

CN 4a,8-Epoxy-4aH-benzocycloheptene, decahydro-5,6-bis(methylene)-,  
(4aR,8S,9aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

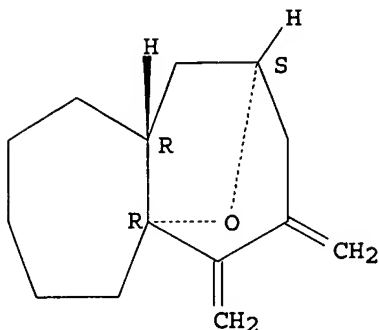


RN 832743-96-1 CAPLUS

CN 1H-2,5a-Epoxyheptalene, decahydro-4,5-bis(methylene)-, (2R,5aS,10aS)-rel-  
(9CI) (CA INDEX NAME)

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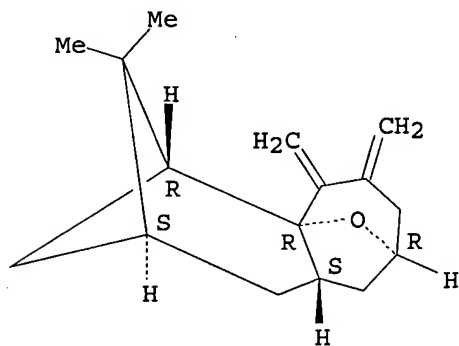
Relative stereochemistry.



RN 832744-02-2 CAPLUS

CN 2H-6,9a-Epoxy-1,3-methano-1H-benzocycloheptene, octahydro-2,2-dimethyl-8,9-bis(methylene)-, (1R,3S,4aS,6R,9aR) - (9CI) (CA INDEX NAME)

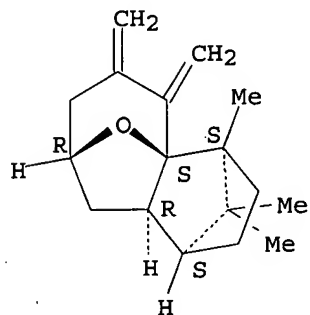
Absolute stereochemistry. Rotation (-).



RN 832744-04-4 CAPLUS

CN 4a,8-Epoxy-1,4-methano-4aH-benzocycloheptene, decahydro-4,11,11-trimethyl-5,6-bis(methylene)-, (1S,4S,4aS,8R,9aR) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A novel methodol. for the diastereoselective synthesis of seven- and eight-membered oxabicycles bearing dimethylidene via Prins-type cyclization was developed. The reaction takes place in the presence of TMSOTf in di-Et ether at -78 °C.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS

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RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

10.78

172.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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